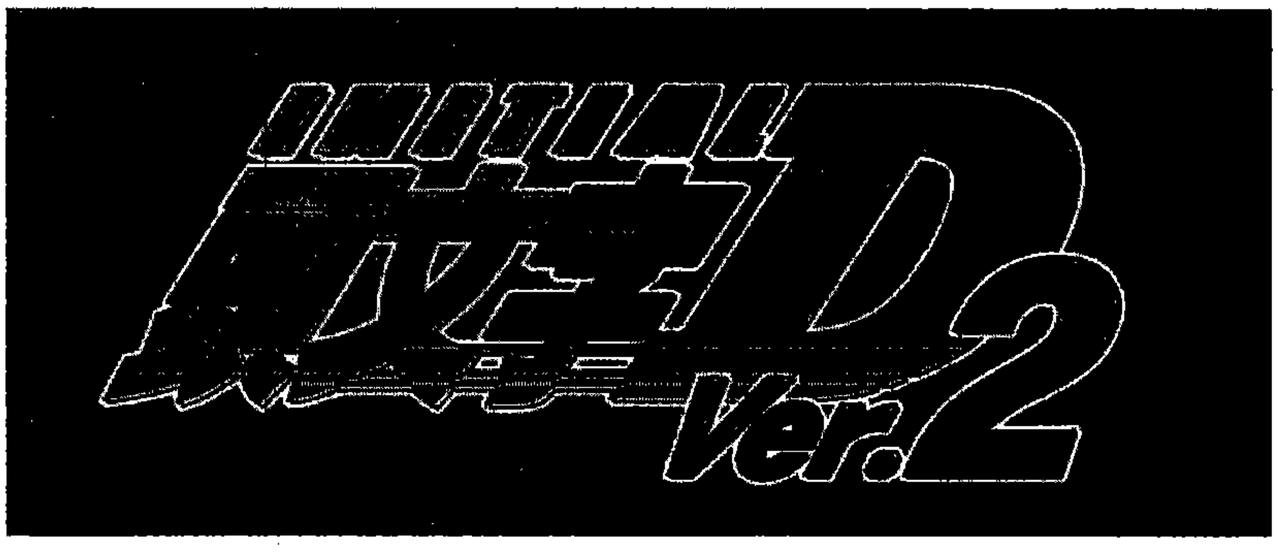
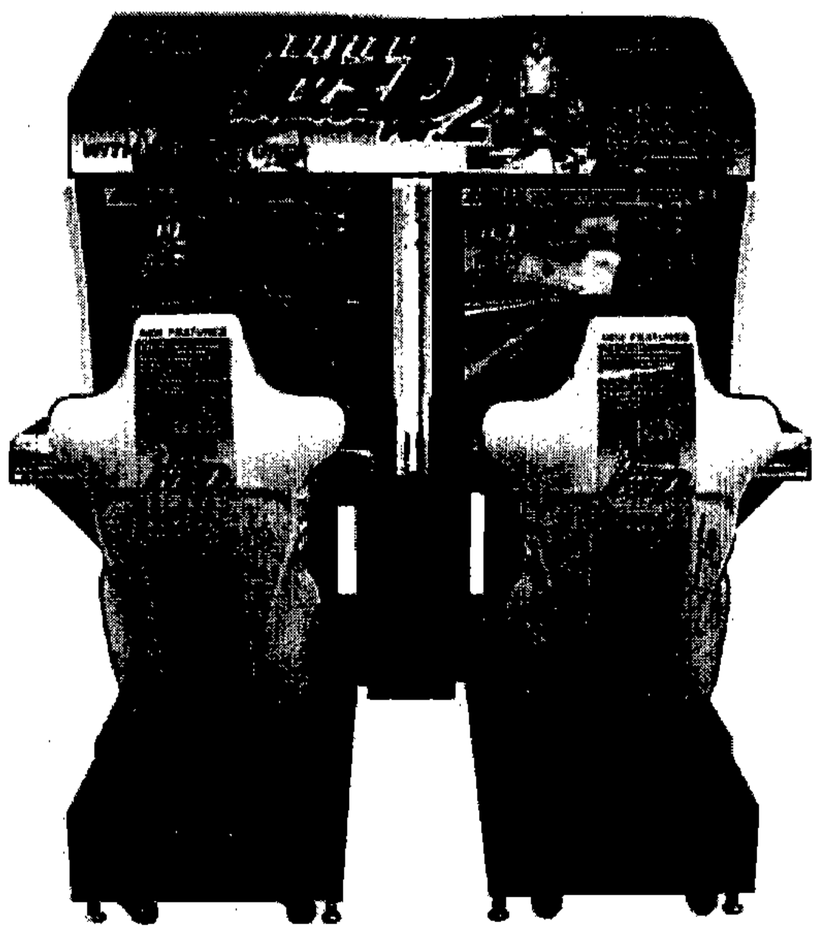
420-6741-02UK REV 0

SERVICE MANUAL



TWIN TYPE



STOP

IMPORTANT

Before using this product, read this SERVICE MANUAL carefully to understand the contents stated herein. After reading this manual, be sure to keep it available nearby the product or somewhere convenient in order to be able to refer to it whenever necessary.

Manufactured in the UK by

SEGA®

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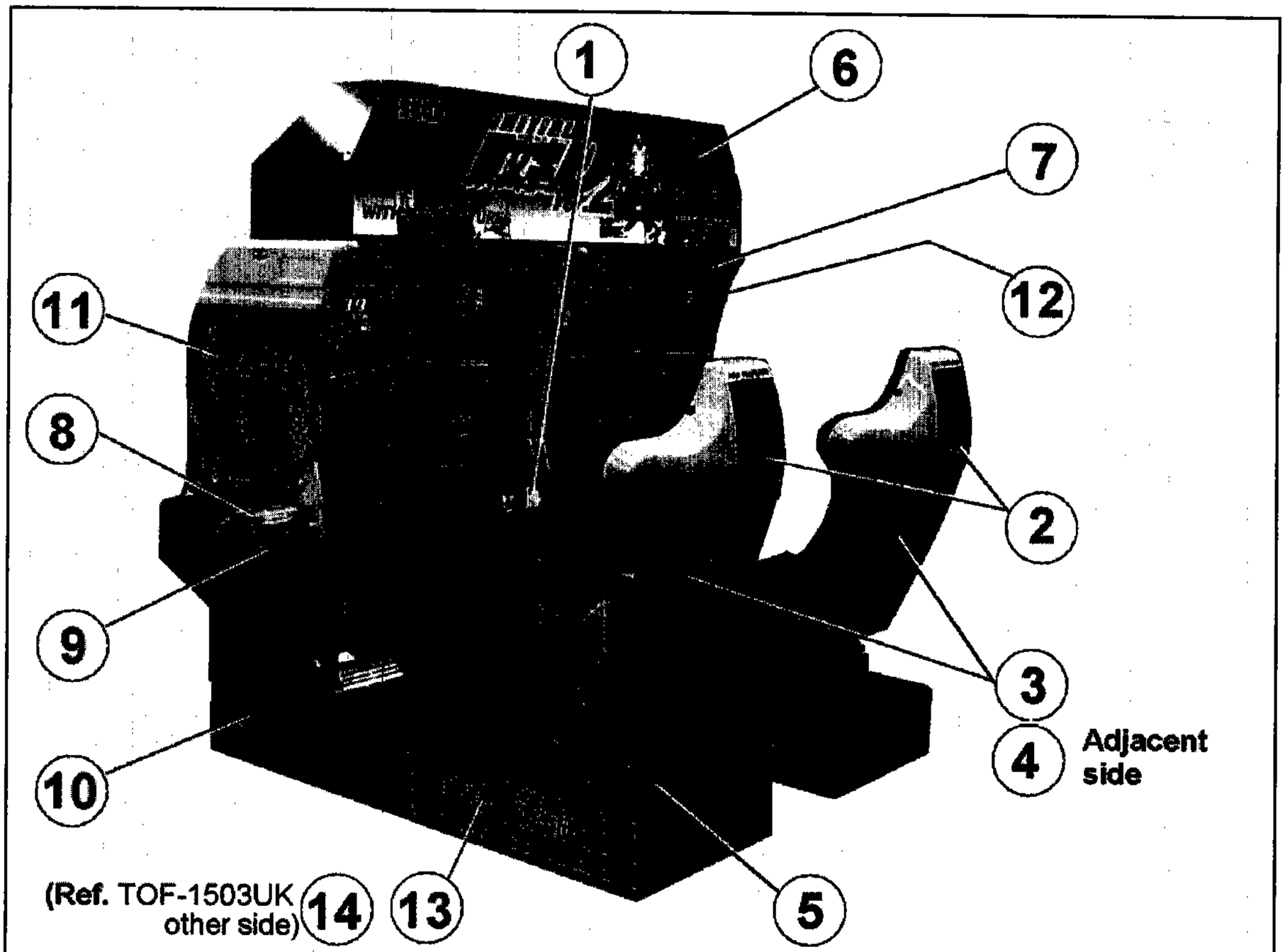
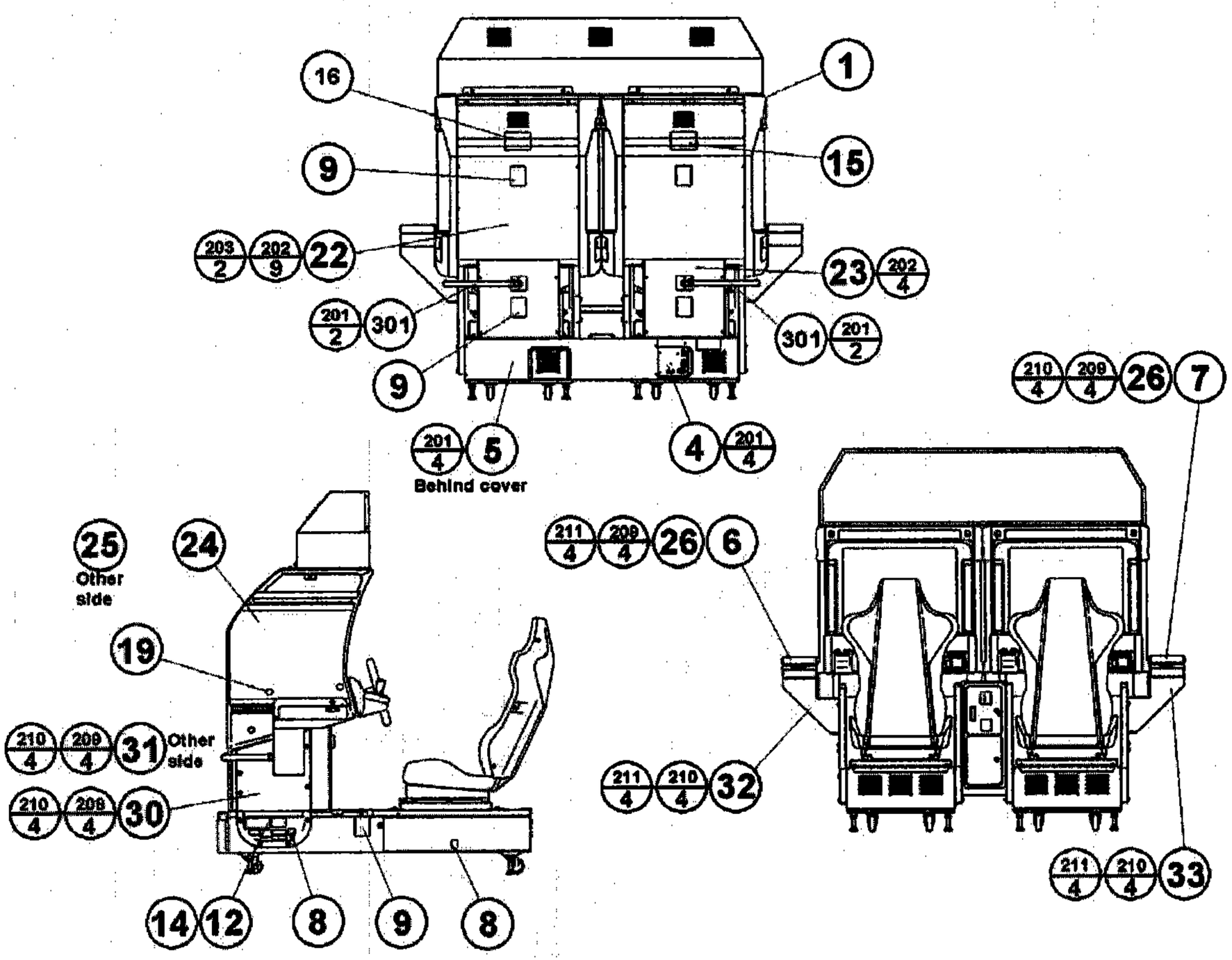
7. DESIGN RELATED PARTS



ITEM	PART NO,	DESCRIPTION
1	TOT-2152UK	STICKER START/VIEW/CREDIT
2	TOT-1603-BUK	STICKER SEAT BACK
3	TOT-1603-CUK	STICKER SEAT BACK L
4	TOT-1603-DUK	STICKER SEAT BACK R
5	TOT-1504UK	STICKER BASE LID
6	TOT-0203UK	BILLBOARD PLATE TOT TWIN
7	422-0905UK	PLAY INSTR SH TOT MULTI
8	TOT-0004UK	STICKER CARD SLOT TOF A MULTI
9	TOT-0005UK	STICKER CARD SLOT TOF B MULTI
10	421-7987-TOT-T	STICKER ELEC SPEC TOT TW
11	TOT-1551-AUK	STICKER COVER PANEL L
12	TOT-1556-AUK	STICKER COVER PANEL R
13	TOF-1502UK	STICKER BASE L
14	TOF-1503UK	STICKER BASE R

8. PARTS LIST

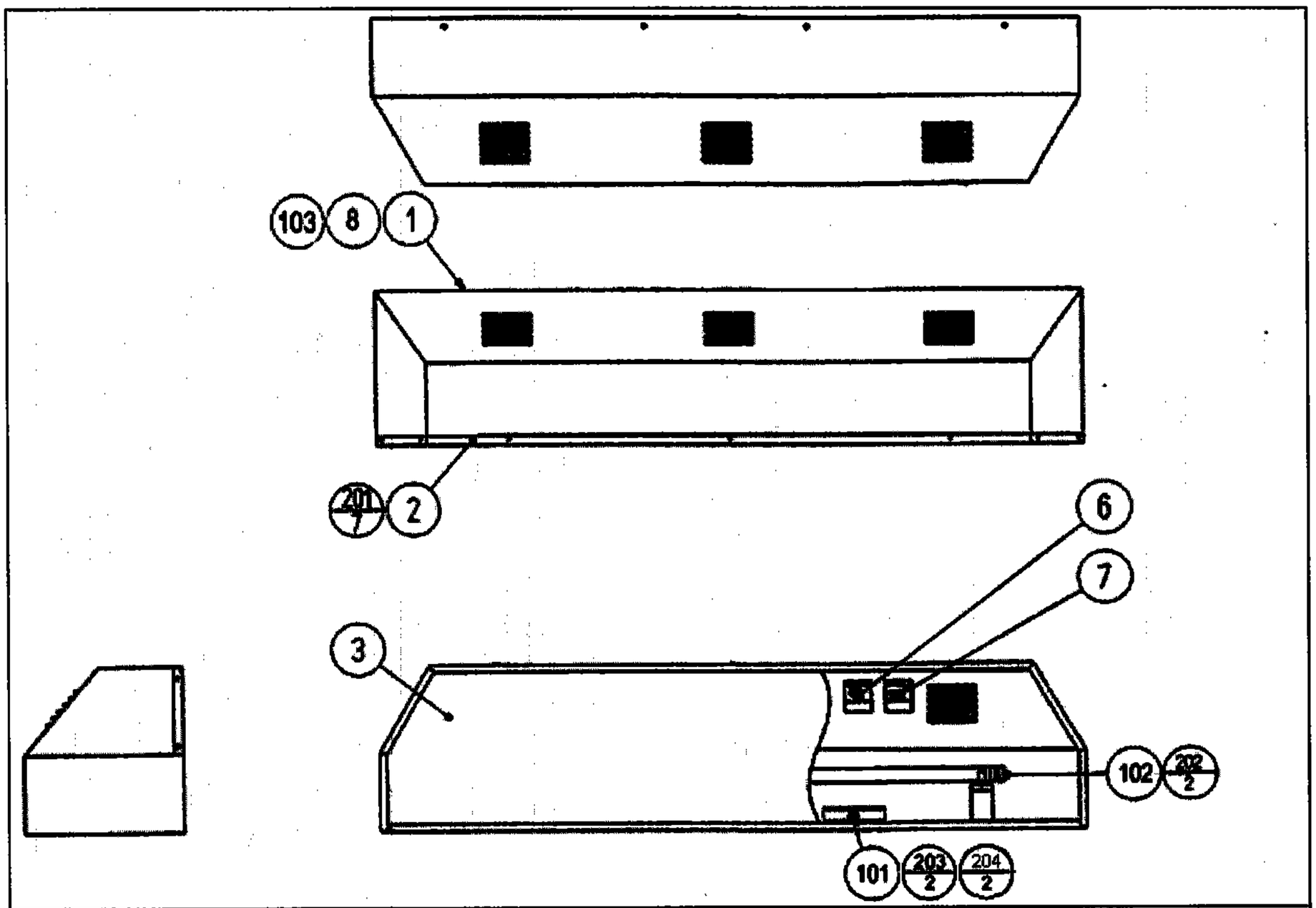
8.1. TOT-00001UK TOP ASSY INITIAL D 2 TWIN



ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	TOT-10001UK	2	ASSY COCKPIT 1P	
3	TOT-INST-TW	1	ASSY INSTALLATION KIT TOT TWIN	
4	TOT-0400UK	1	ASSY AC BRKT MAIN	
5	TOT-0700UK	1	ASSY AC BRKT SUB	
6	VOF-0450UK	1	CARD UNIT TWIN L	
7	VOF-0460UK	1	CARD UNIT TWIN R	
8	421-7020UK	4	STICKER CAUTION FORK	
9	LB1102	6	STICKER DANGEROUS VOLTAGE	BACK LIDS-4, REAR FLOOR-2
12	421-7987-TOT-T	1	STICKER ELEC SPEC TOT TW	MAIN CABI, LHS OF MAIN BASE
14	421-7988-91UK	3	STICKER SERIAL NUMBER UK	1P-1,2P-2,CCT INSIDE TOP DOOR
15	421-8543UK	1	STICKER CABINET L UK	1P
16	421-8544UK	1	STICKER CABINET R UK	2P
18	SGM-3863	2	POLY COVER 1800X950X1700	
19	RAL-0006UK	24	BLIND CAP	1P-LHS-12, 2P-RHS-12
22	INY-0004	2	BACK LID INY	
23	CKT-0001UK	2	BACK LID B W/HOLE UK	
24	TOT-1551-AUK	1	STICKER COVER PANEL L	
25	TOT-1556-AUK	1	STICKER COVER PANEL R	

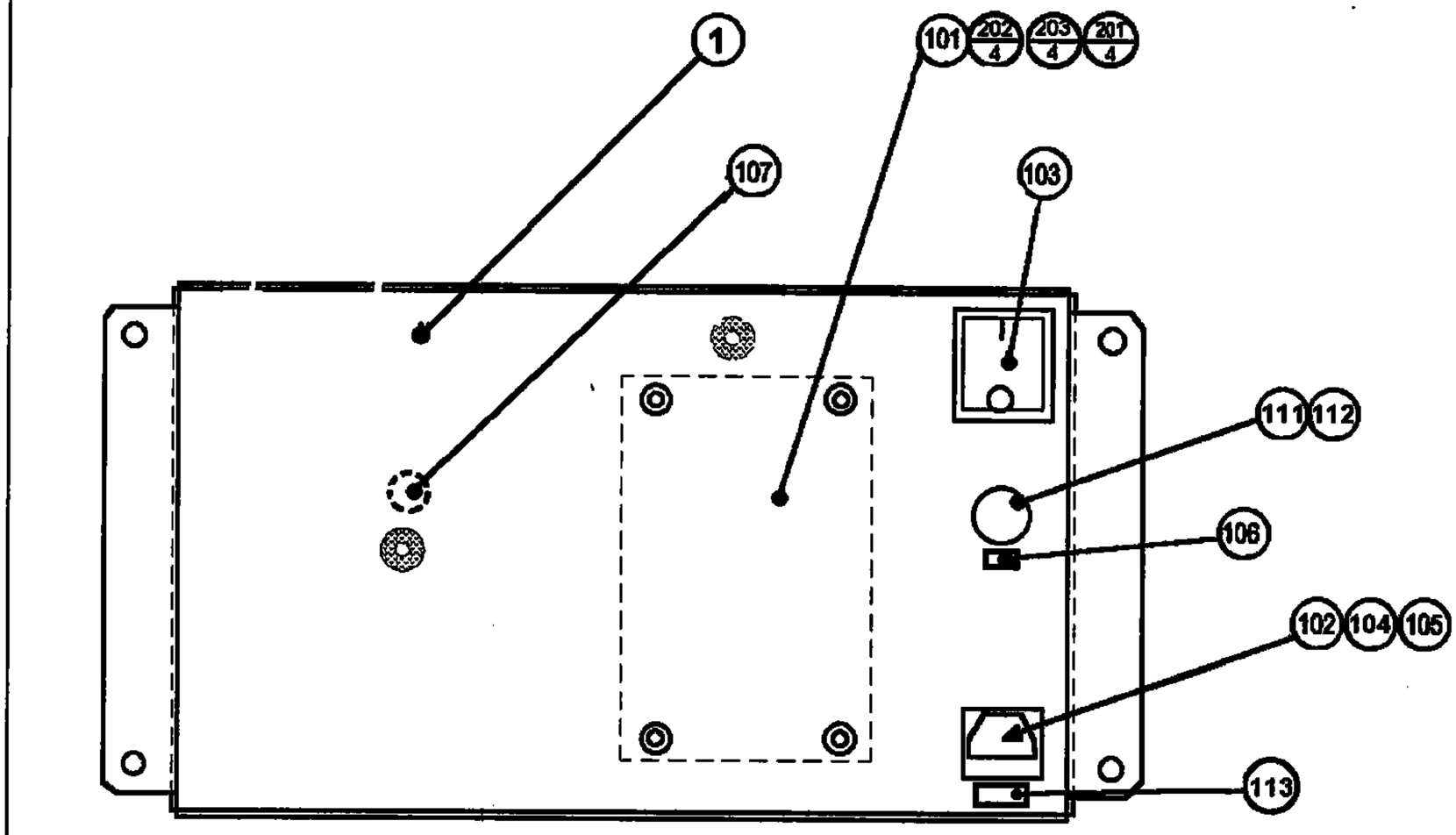
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
26	CKT-0015UK	2	STICKER CARD LOADING INSTR	
27	LB1046	1	LABEL TESTED FOR ELEC. SAFETY	
28	RAL-XXXX-13UK	2	LOCK COVER UK	(R.FLOORS)-2
30	CKT-0004	1	SIDE PNL L	
31	CKT-0005	1	SIDE PNL R	
32	CKT-0006	1	CARD UNIT BASE L	
33	CKT-0007	1	CARD UNIT BASE R	
201	000-P00412-WB	12	M4X12 MSCR PAN W/FS BLK	(4)-4,(5)-4,(301)-4
202	000-P00408-WB	26	M4X8 MSCR PAN W/FS BLK	(22)-18,(23)-8
203	010-P00412	4	M4X12 S-TITE PAN PAS	(22)-4
204	008-T00408-0C	16	M4X8 TMP PRF TH CRM	(28)-8,(F.FLOORS)-8
205	029-B00620-0B	4	M6X20 SKT BH BLK	(R.FLOORS)-4
206	060-S00600-0B	4	M6 WSHR SPR BLK	(R.FLOORS)-4
207	060-F00600-0B	4	M6 WSHR FORM A FLT BLK	(R.FLOORS)-4
209	030-000820-SB	24	M8X20 BLT W/S BLK	(6)-4, (7)-4, (30)-4, (31)-4, (32)-4, (33)-4
210	068-852216-0B	16	M8 WSHR 22OD FLT BLK	(30)-4, (31)-4, (32)-4, (33)-4
211	060-F00800	8	M8 WSHR FORM A FLT PAS	(6)-4, (7)-4
301	CKT-61009UK	2	WH EXT CARD R/W C	
401	PK0340	2	SLEEVE COCKPIT TOT TWIN	
402	PK0317	1	PALLET TOF	
403	PK0340-LID	2	LID TOT TWIN	
404	PK0341	1	PALLET TOT	

8.2. TOT-0200UK ASSY BILLBOARD



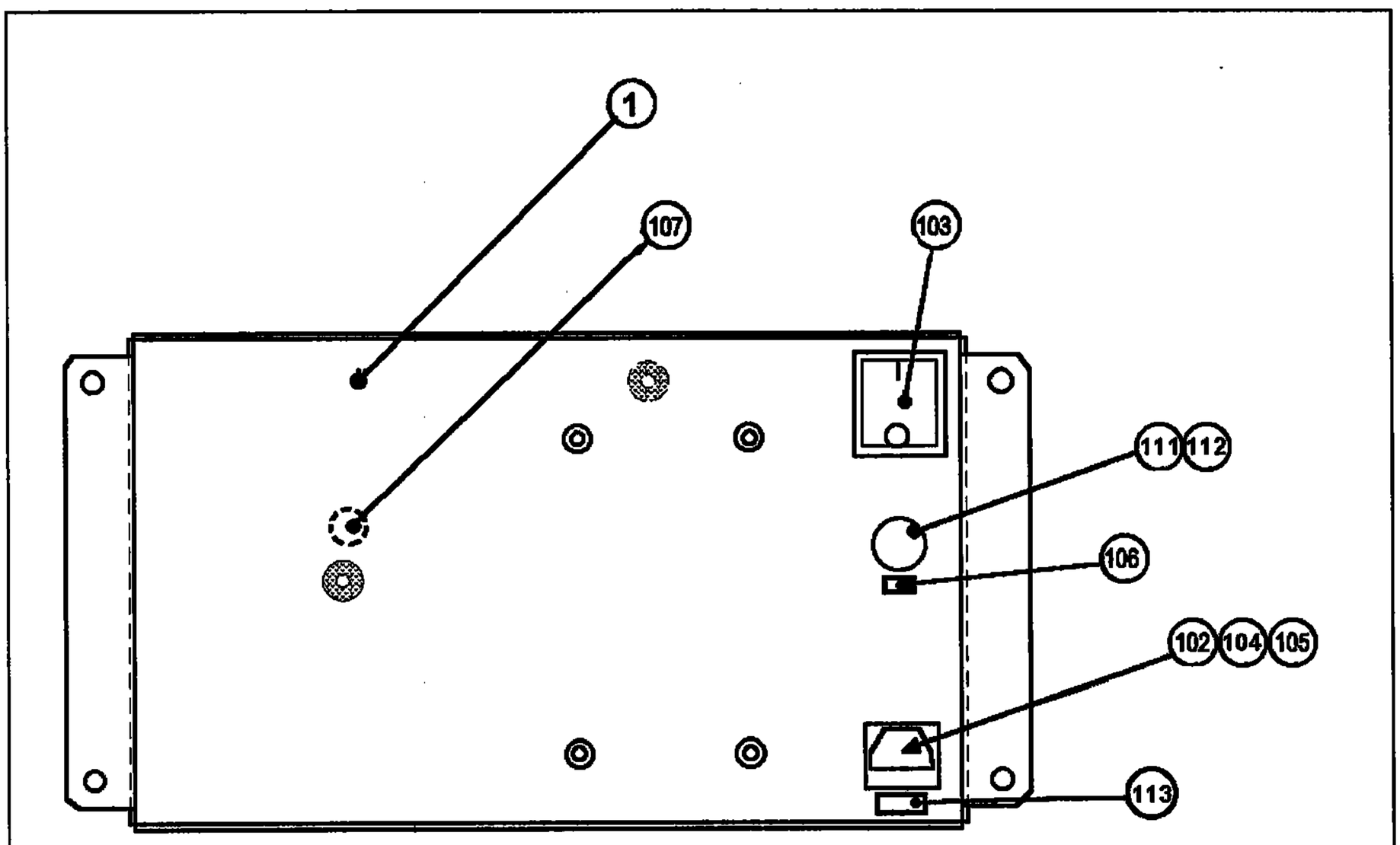
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF
1	TOT-0201UK	1	BILLBOARD BOX	
2	TOT-0202UK	1	BILLBOARD SASH	
3	TOT-0203UK	1	BILLBOARD PLATE TOT TWIN	
6	LB1102	1	STICKER DANGEROUS VOLTAGE	CENTRE BACK OF (1)
7	LB1104	1	STICKER CAUTION, HOT SURFACE	CENTRE BACK OF (1)
8	LB1046	1	LABEL TESTED FOR ELEC. SAFETY	
101	390-5695-40-CUK	1	FL TRAY 110V 40W (T12)	
102	390-5695-40-BUK	1	FL TUBE 40W 4' DIA 1.5" T12	
103	421-7501-10	1	STICKER FL 40W	
201	000-T00408-0B	7	M4X8 MSCR TH BLK	(2)-7
202	000-P00412	2	M4X12 MSCR PAN PAS	TERRY CLIPS -2
203	068-441616	2	M4 WSHR 16OD FLT PAS	(101)-2
204	050-F00400	3	M4 NUT FLG SER PAS	(101)-2,(EARTH)-1
205	280-A00900-A	5	ROUTER TWIST D9 ADH	
301	600-7064-031UK	1	WIRE HARN FL	

8.3. TOT-0400UK ASSY AC BRKT MAIN



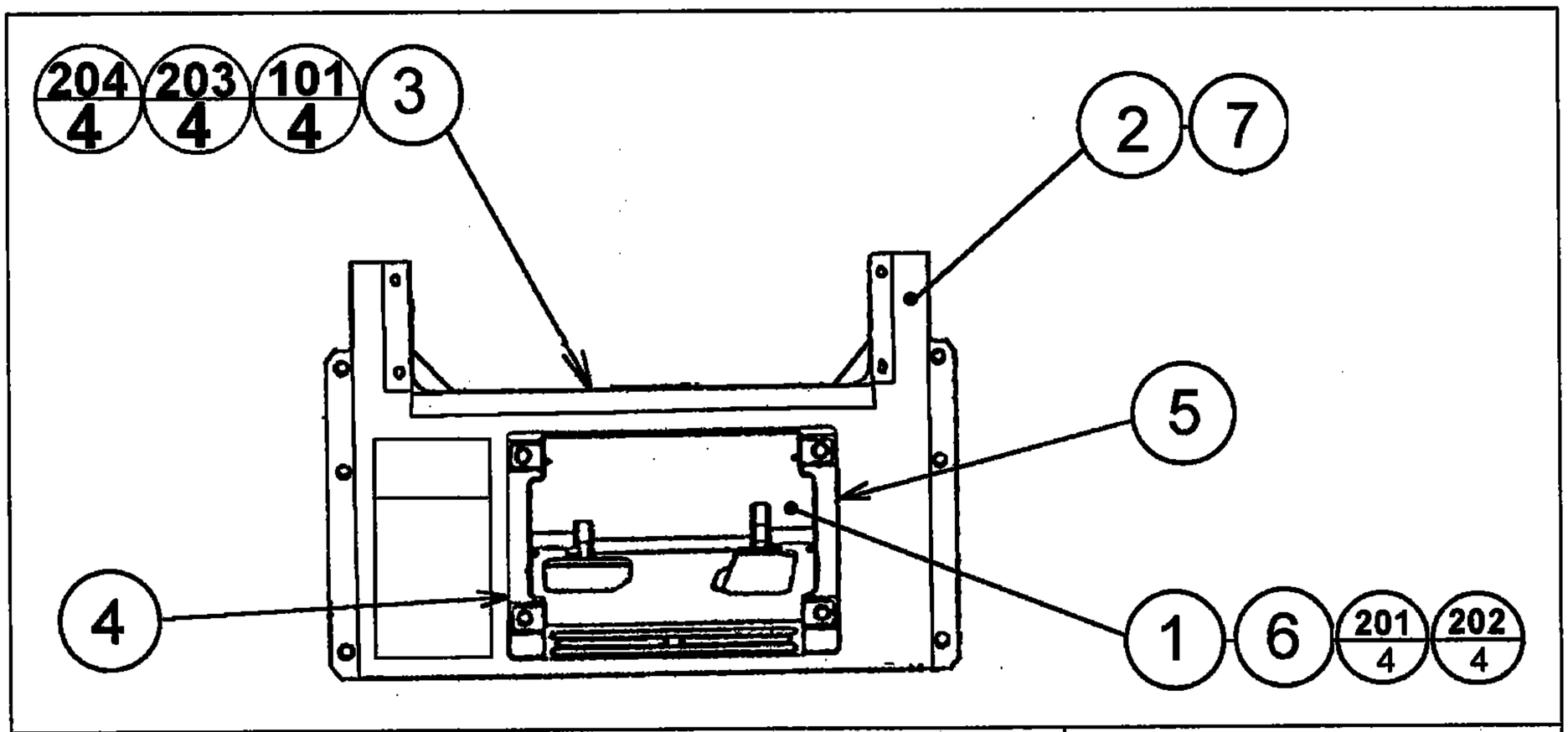
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	TOF-0401UK	1	AC BRKT UK	
101	EP1379	1	FILTER EMI 10A ARCOTRONICS	
102	EP1302	1	EUROSOCKET FUSED 1OA 250Vac	
103	EP1303	1	SWITCH ROCKER DPST 10A 250Vac	
104	514-5078-10000	1	FUSE 5X20 CERAMIC SB 10000mA	IEC INLET
105	310-5029-D508	5	HEAT SHRINK SLEEVING 50.8DIA	OVER ITEM 102(50MM OVER SOCKET)
106	421-6595-5000-T	1	STICKER FUSE 5000mA TYPE T	FUSE HOLDER
107	LB1096	1	STICKER PROTECTIVE EARTH	EARTH POINT INSIDE
108	211-5479-01	2	CONN OPT JOINT PNL-TOCA150	
109	LB1087	1	STICKER FIBRE CABLE RX	@ TOP
110	LB1088	1	STICKER FIBRE CABLE TX	@ BOTTOM
111	EP1334	1	FUSE HOLDER 20mm 10A 240Vac	
112	514-5078-5000	1	FUSE 5X20 CERAMIC SB 5000mA	
113	421-6595-10000T	1	STICKER FUSE 10000mA TYPE T	IEC INLET
201	060-S00300	4	M3 WSHR SPR PAS	(101)-4
202	060-F00300	4	M3 WSHR FORM A FLT PAS	(101)-4
203	000-P00310	8	M3X10 MSCR PAN PAS	(101)-4,(108)-4
204	050-F00400	3	M4 NUT FLG SER PAS	(INSIDE EARTH)-2,(OUTSIDE)-1
301	600-6873-001UK	1	WIRE HARN XFMR IN	
303	600-9030-44K	1	WIRE HARN EARTH 300mm M4/M4 K	AC BRKT TO MAIN BASE
304	600-9040-45K	1	WIRE HARN EARTH 400mm M4/M5 K	AC BRKT - XFMR

8.4. TOT-0700UK ASSY AC BRKT SUB



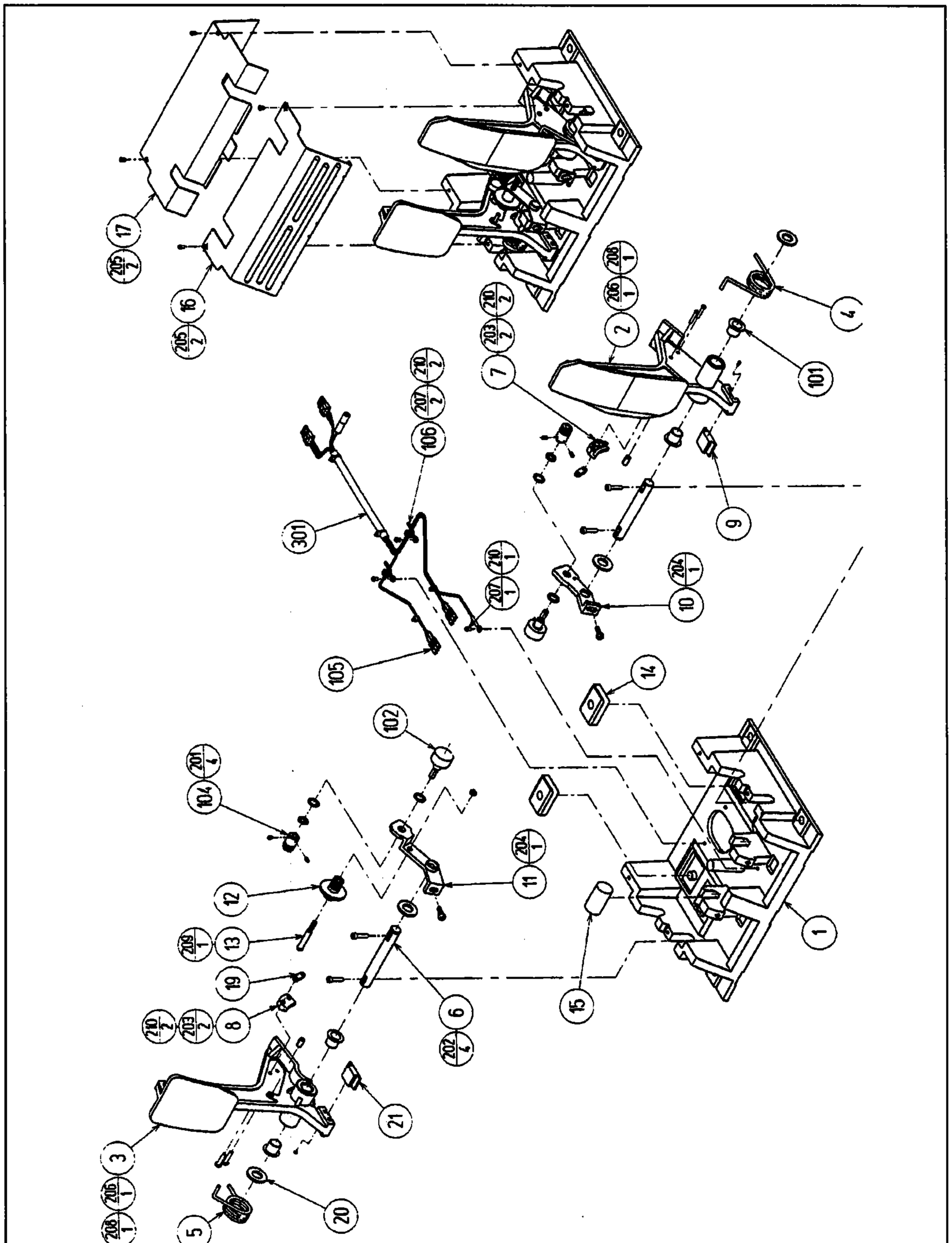
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REFERENCE
1	TOF-0401UK	1	AC BRKT UK	
106	421-6595-5000-T	1	STICKER FUSE 5000mA TYPE T	FUSE HOLDER
107	LB1096	1	STICKER PROTECTIVE EARTH	EARTH POINT INSIDE
108	211-5479-01	2	CONN OPT JOINT PNL-TOCA150	
109	LB1087	1	STICKER FIBRE CABLE RX	@ TOP
110	LB1088	1	STICKER FIBRE CABLE TX	@ BOTTOM
111	EP1334	1	FUSE HOLDER 20mm 10A 240Vac	
112	514-5078-5000	1	FUSE 5X20 CERAMIC SB 5000mA	
203	000-P00310	4	M3X10 MSCR PAN PAS	(108)-4
204	050-F00400	3	M4 NUT FLG SER PAS	(INSIDE EARTH)-2,(OUTSIDE)-1
303	600-9030-44K	1	WIRE HARN EARTH 300mm M4/M4 K	AC BRKT TO MAIN BASE
304	600-9040-45K	1	WIRE HARN EARTH 400mm M4/M5 K	AC BRKT - XFMR
305	600-6999-201UK	1	WIRE HARN SUB AC BRKT	

8.5. TOT-1200UK ASSY PEDAL BASE TOT



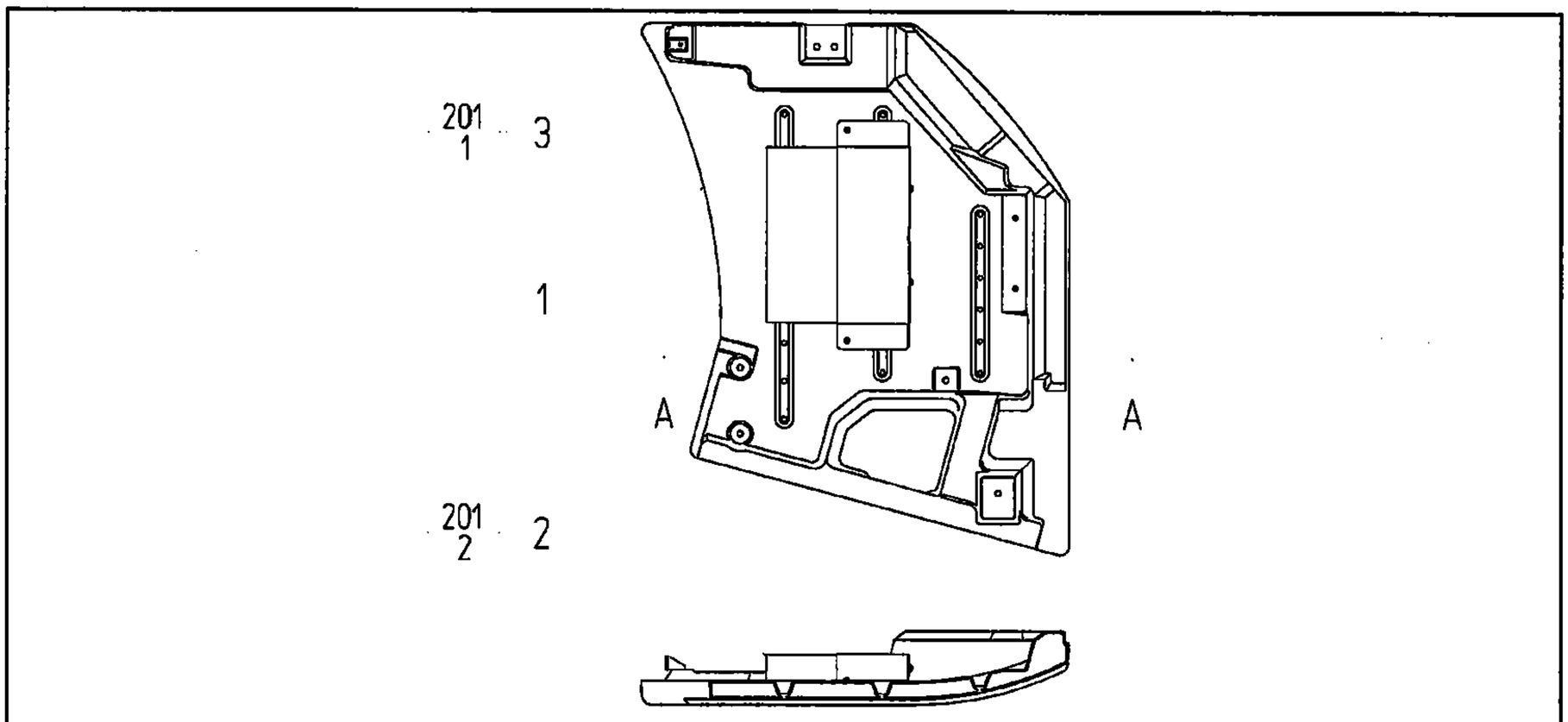
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	SPG-2200	1	ASSY BRAKE & ACCELL	
2	TOF-1501UK	1	PEDAL BASE	
3	NCR-1104UK	1	WIRE COVER BOX	
4	SPG-2222UK	1	ANTI FINGER TRAP PLATE LEFT	
5	SPG-2223UK	1	ANTI FINGER TRAP PLATE RIGHT	
6	SPG-2224UK	1	PEDAL GASKET	
7	SRT-2031UK	0.52	NEOPRENE RUBBER STRIP 10	(2)-520mm X1 INSIDE FLANGE
101	280-A01200-A	6	ROUTER TWIST D12 ADH	WIRE COVER BOX
201	068-852216-0B	4	M8 WSHR 22OD FLT BLK	(1)-4
202	030-000820-SB	4	M8X20 BLT W/S BLK	(1)-4
203	000-P00408-WB	4	M4X8 MSCR PAN W/FS BLK	(3)-4
204	050-F00400	3	M4 NUT FLG SER PAS	(3)-3 EARTHS
301	600-9050-44K	1	WIRE HARN EARTH 500mm M4/M4 K	WIRE COVER TO MAIN BASE

8.6. ASSY ACCEL & BRAKE (SPG2200)



Item	Component Part	Description	Component Reference	Qty
1	SPG-2201	BASE		1
2	SPG-2202	ACCEL PEDAL		1
3	SPG-2203	BRAKE PEDAL		1
4	SPG-2204	ACCEL SPRING		1
5	SPG-2205	BRAKE SPRING		1
6	SPG-2206	SHAFT		2
7	SPG-2207	ACCEL		1
8	SPG-2208	BRAKE GEAR		1
9	SPG-2209	NEUTRAL STOPPER		1
10	SPG-2210	VR PLATE ACCEL		1
11	SPG-2211	VR PLATE BRAKE		1
12	SPG-2212	AMPL GEAR		1
13	SPG-2213	GEAR SHAFT		1
14	SPG-2214	STOPPER		2
15	SPG-2215	RUBBER CUSHION		1
16	SPG-2216	COVER		1
17	SPG-2217	VR COVER		1
19	SPG-2219	GEAR STAY		2
20	SPG-2220	WSHR		4
21	SPG-2221	NEUTRAL STOPPR D		1
101	100-5263	BEARING 12 (OILES 80F-1212)		4
102	220-5484	VOL CONT B-5K OHM		2
104	601-7944	GEAR 15		2
105	310-5029-F15	SUNITUBE F F15MM		6
106	280-0419	HARNESS LUG		2
201	028-A00304-P	SET SCR HEX SKT CUP P M3X4		4
202	020-000516-OZ	HEX SKT H CAP SCR BLK OZ M5X16		4
203	000-P00420	M SCR PH M4X20		4
204	000-P00508-W	M SCR PH W/FS M5X8		2
205	000-T00408-OC	M SCR TH CRM M4X8		4
206	FAS-450005	SPR PIN BLK OZ 6X10		2
207	000-P00405	M SCR PH M4X5		3
208	FAS-000001	M SCR TH CRM M3X6		2
209	050-H00500	HEX NUT M5		1
210	060-F00400	FLT WSHR M4		7

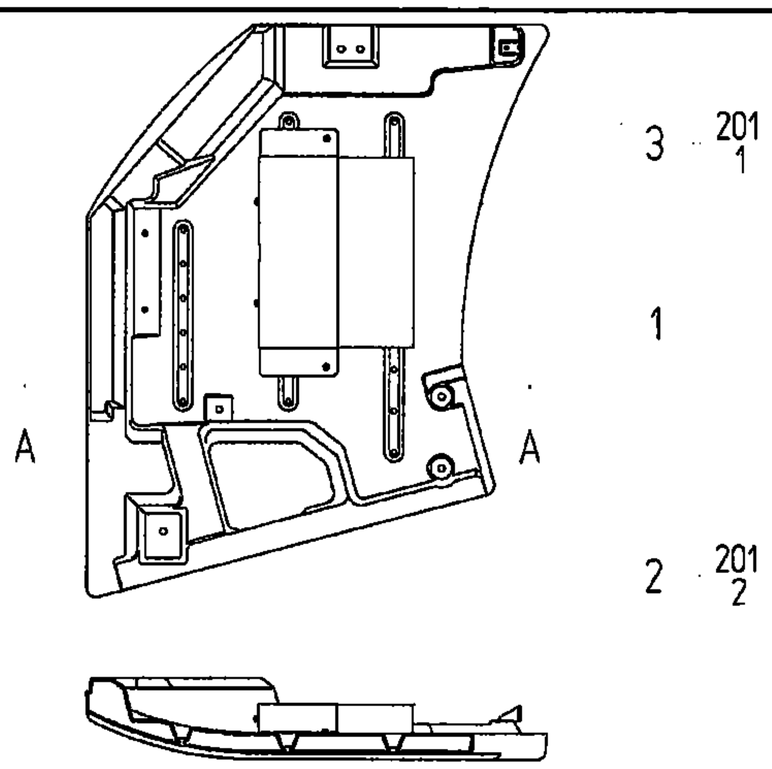
8.7. TOT-1550UK ASSY MONITOR COVER L 2P



SECTION A-A

ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	SRT-1031X-A	1	COVER PANEL L BLANK	
2	APC-1560	1	ASSY SPEAKER L	
3	DYN-1032UK	1	MASK BRKT	
201	000-P00408-W	3	M SCR PH W/FS M4X8	(2)-2,(3)-1

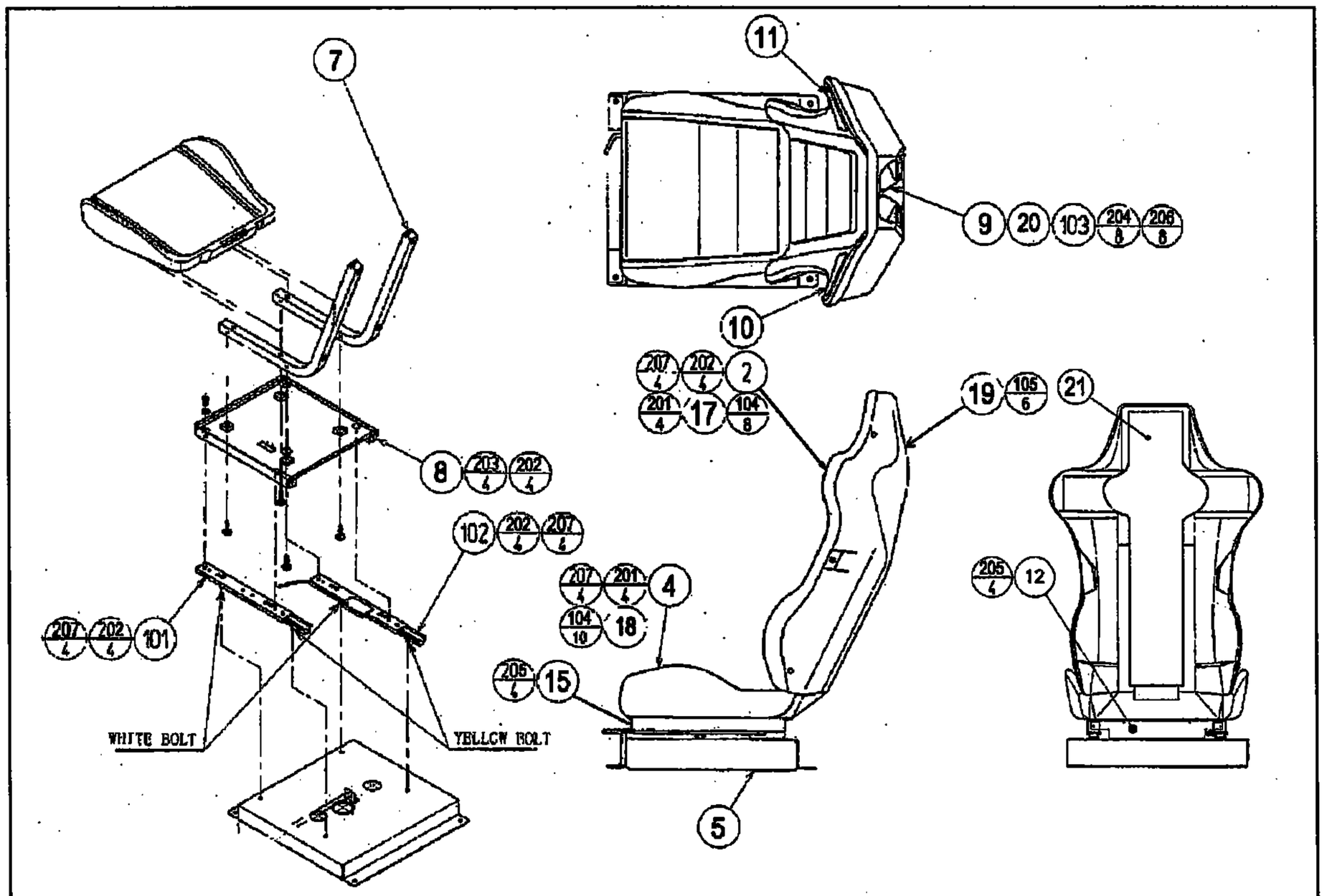
8.8. TOT-1555UK ASSY MONITOR COVER R 2P



SECTION A-A

ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	SRT-1046X-A	1	COVER PANEL R BLANK	
2	APC-1565	1	ASSY SPEAKER R	
3	DYN-1032UK	1	MASK BRKT	
201	000-P00408-W	3	M SCR PH W/FS M4X8	(2)-2,(3)-1

8.9. TOT-1600UK ASSY SEAT TWIN 1P



ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
2	SPG-2401-A	1	UPPER SEAT BLANK	
4	SPG-2402-A	1	LOWER SEAT BLANK	
5	STC-1603	1	SEAT BASE	
7	STC-1604	2	SEAT FRAME	
8	STC-1606	1	SEAT MOUNT TRAY	
9	STC-1607	2	SP MOUNT BRKT	
10	STC-1608	1	SPEAKER NET L	
11	STC-1609	1	SPEAKER NET R	
12	STC-1610	1	SAFETY GUARD	
14	STC-1612	2	PROTECT RUBBER	
15	STC-1613	1	SAFETY GUARD F	
16	OS1004	0.8	DRAFT EXCLDR 4 X7MM BLK x 10M	(103)-0.8M
17	SPG-2401-BUK	1	UPPER SEAT INSERT	(2)-1
18	SPG-2402-BUK	1	LOWER SEAT INSERT	(4)-1
19	TOF-1603-AUK	1	SEAT REAR COVER BLANK UK	
20	SRT-2409	2	SHOULDER PAD	INBETWEEN SPKR NETS & SEAT
21	TOT-1603-BUK	1	STICKER SEAT BACK	
22	TOT-1603-CUK	1	STICKER SEAT BACK L	
23	TOT-1603-DUK	1	STICKER SEAT BACK R	

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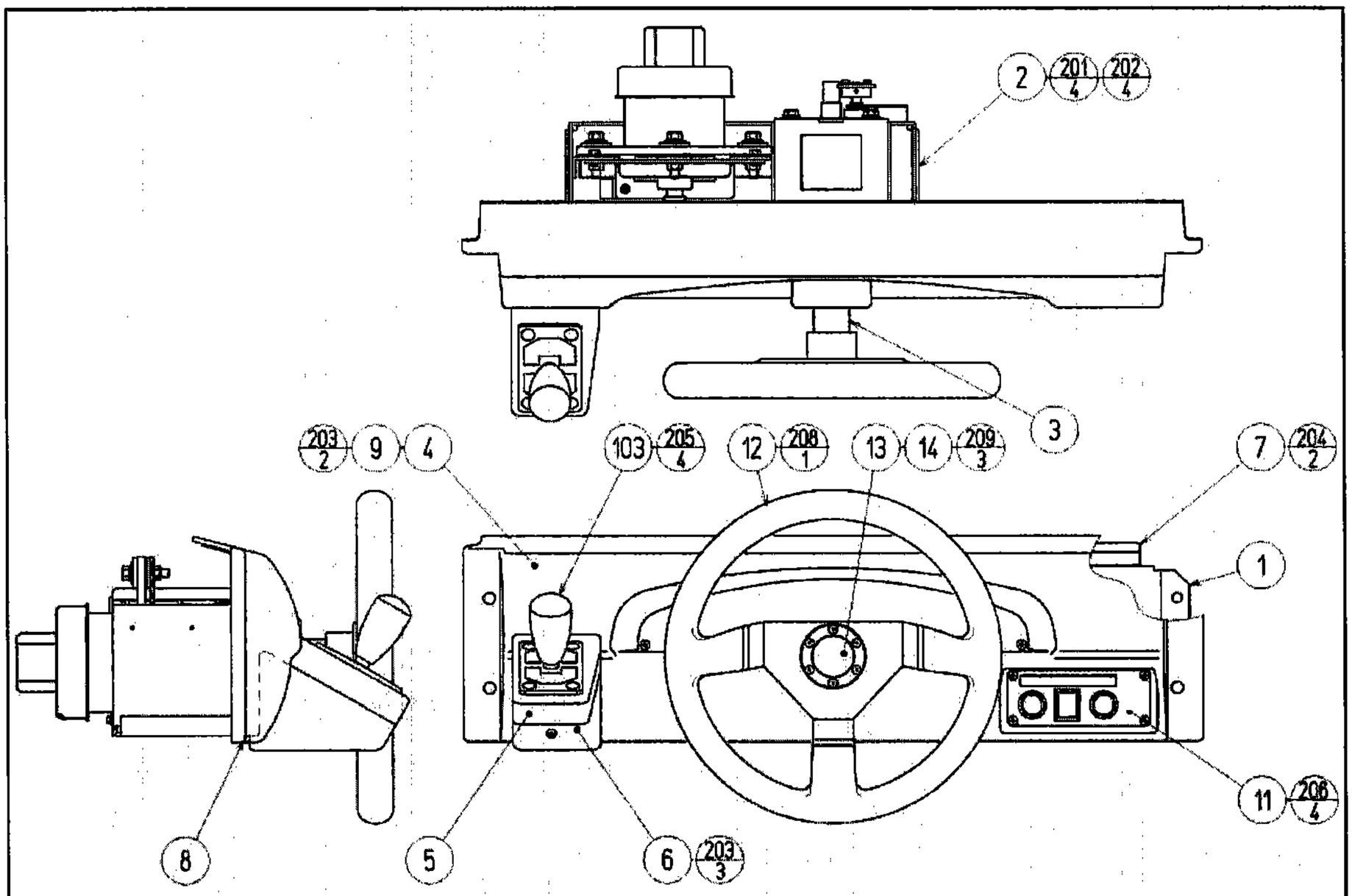
ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
101	601-9059-91	1	SEAT RAIL L	
102	601-9060-91	1	SEAT RAIL R	
103	130-5186-91	2	DUMMY SPEAKER	
104	280-K02529-WX	18	DRIVE FASTENER 25FH 24L 7.9DIA	(17)-8,(18)-10
105	280-5297	6	SCRIVET 8 1K31	(19)-6
201	030-000850-S	8	M8X50 BLT W/S PAS	(2)-4,(4)-4
202	068-852216	20	M8 WSHR 22OD FLT PAS	(2,4,8,101,102)-4EA
203	030-000816-S	4	M8X16 BLT W/S PAS	(8)-4
204	000-P00410-W	8	M4X10 MSCR PAN W/FS PAS	(9)-8
205	000-T00408-0B	8	M4X8 MSCR TH BLK	(12)-4,(15)-4
206	012-P03512-F	8	N6X1/2" S/TAP FLG PAS	(103)-8
207	050-U00800	8	M8 NUT NYLOK PAS	(101)-4,(102)-4

8.10. TOT-2000UK ASSY CONTROL PANEL



ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
1	TOF-2001UK	1	CONTROL PANEL BRKT	
2	TOF-2500	1	ASSY HANDLE MECHA	
3	TOF-2002UK	1	HANDLE COLLAR	
4	TOF-2003	1	CONTROL PANEL COVER	
5	TOF-2004	1	SHIFT COVER UPPER	
6	TOF-2005	1	SHIFT COVER LOWER	
7	TOF-2006UK	1	COVER HOLDER	
8	OS1220	0.075	FOAM STRIP 8mmSQ ADHESIVE	
9	TOF-2008UK	1	CTRL PNL PLATE	(4)-1
11	TOT-2150UK	1	ASSY SW PLATE	
12	601-11097	1	STEERING WHEEL 340	
13	601-11098	1	STEERING EMBLEM 340	
14	TOF-2010	1	STICKER STEERING EMBLEM	(13)-1
15	440-WS00220UK	1	WARNING STICKER TRAP HAZARD	
102	280-A02000-A	5	ROUTER TWIST D20 ADH	
103	610-0408-91	1	UP/DOWN SHIFTER AL	
104	601-0460	1	CABLE TIE 100mm	
105	280-A00900-A	3	ROUTER TWIST D9 ADH	

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ITEM	PART NO.	QTY	DESCRIPTION	COMPONENT REF.
201	030-000820-S	4	M8X20 BLT W/S PAS	(2)-4
202	060-F00800	4	M8 WSHR FORM A FLT PAS	(2)-4
203	000-T00408-0B	5	M4X8 MSCR TH BLK	(9)-2,(6)-3
204	000-P00410-W	2	M4X10 MSCR PH W/FS	(7)-2
205	008-T00512-0B	4	M5X12 TMP PRF TH BLK	(103)-4
206	000-T00410-0C	4	M4X10 TH CRM M4X10	(11)-4
207	000-T00408-0B	5	M4X8 MSCR TH BLK	(102)-5
208	050-F01200	1	M12 NUT FLG SER PAS	(12)-1
209	FAS-290015	3	M4X12 HEX SKT SCR FH BLK	(13)-3
301	TOF-60016UK	1	WH EXT VOLUME C	
302	TOF-60017UK	1	WH EXT VIEW BUTTON C	
303	TOF-60018UK	1	WH EXT SHIFTER	
304	CKT-62037UK	1	WIRE HARN ENCODER EXT 2	
305	CKT-62036UK	1	WIRE HARN SERVO OUTPUT EXT 2	